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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 07/17/2009

Douglas R Hanscom Jones Tullar & Cooper PO Box 2266 Eads Station Arlington, VA 22202 EXAMINER

YEH, EUENG NAN

ART UNIT PAPER NUMBER

2624 DATE MAILED: 07/17/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/521,762	01/21/2005	Volker Lohweg	W1.1914 PCT-US	2612	

TITLE OF INVENTION: METHOD FOR ANALYZING THE COLOR DEVIATIONS IN IMAGES USING AN IMAGE SENSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/19/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GARAT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	FOR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/521,762 TITLE OF INVENTION	01/21/2005 : METHOD FOR ANAI	YZING T	HE COLOR D	Volker Lohweg EVIATIONS IN IMAG	GES.	USING AN IMAC		I.I914 PCT-US (SOR		2612
APPLN. TYPE	SMALL ENTITY	ISSUE	FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	JE FEE TOTAL FEE(S) DU		DATE DUE	
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"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignce is ident h in 37 CFR 3.II. Comp	nge of Cor "Indication ed. Use of A TO BE P	respondence n form a Customer		ingle or a attor I be p r type r type ac pa	ely,  firm (having as a gent) and the name news or agents. If sortinted.  e)  tent. If an assignussignment.	memb es of up no nam	er a 2		n has been filed for
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Douglas R Hanso	com	YEH, EUENG NAN					
Jones Tullar & Co	oper		ART UNIT PAPER NUMBER				
PO Box 2266 Eads Station Arlington, VA 222	:02		2624 DATE MAILED: 07/17/200	9			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 672 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 672 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/521,762 LOHWEG ET AL. Notice of Allowability Examiner Art Unit FUENG-NAN YEH 2624 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the amendment received on April 22, 2009. The allowed claim(s) is/are 15,16,19-26 and 31-34. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) $\square$ All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /Eueng-nan Yeh/ Examiner, Art Unit 2624

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### Allowance

# Response to Arguments

 Applicant's arguments, see Remarks page 14 last paragraph and page 15 first and second paragraphs, filed on April 22, 2009, with respect to claims 15 and 16 have been fully considered and are persuasive. The claim rejection has been withdrawn.

## Allowable Subject Matter

- Claims 15, 16, 19-26, and 31-34 are allowed. Claims 1-14, 17, 18, 27-30, 35, and 36 cancelled.
- 3. The following is an examiner's statement of reasons for allowance:

The present application provides a method to analyze printed color image. In order to be "tied-to" another statutory category, structure associated with another statutory category, in this case the red color sensor, green color sensor, and blue color sensor, has be positively recited in a step or steps significant to the basic inventive concept to reproduce color perceptions in a human eye.

The present application comprises the following features in combination with other recited limitations, which the closest prior art of record and the references cited in form PTO-1449 taken either singly or in combination does not teach:

 selecting said first calculation specification for forming a weighted difference between said second color channel image sensor signal and said first color Art Unit: 2624

channel image sensor signal corresponding to a first color perception of a human eve: selecting said second calculation specification for forming a weighted difference between said combination of said first color channel image sensor signal and said second color channel image sensor signal, and said third color channel image sensor signal corresponding to a second color perception of a human eye; providing at least one reference image; generating first and second reference image output signals of first and second reference image compensation channels; providing a classification system; using said classification system for comparing said first and second reference image output signals with said first and second printed image output signals in said reference memory; classifying said first and said second output signals of said first and second compensation color channels, representing said receptive fields of color perception of a human eye using said classification system; and determining an acceptability of said human eve color perception of said printed image based on said classification of said first and second printed image output signals with said first and second reference image output signals performed in said classification system (independent claim 15).

 selecting said first calculation specification for forming a weighted difference between said second color channel image sensor signal and said first color channel image sensor signal corresponding to a first color perception of a human eye; selecting said second calculation specification providing a linkage of a minimum one of the first color channel image sensor signal and the second color Application/Control Number: 10/521,762

Art Unit: 2624

channel image sensor signal, with said third color channel image sensor signal corresponding to a second color perception of a human eye; providing at least one reference image; generating first and second reference image output signals of first and second reference image compensation channels; providing a classification system; using said classification system for comparing said first and second reference image output signals with said first and second printed image output signals in said reference memory; classifying said first and said second output signals of said first and second compensation color channels, representing said receptive fields of color perception of a human eye using said classification system; and determining an acceptability of said human eye color perception of said printed image based on using said classification of said first and second printed image output signals with said first and second reference image output signals performed in said classification system (independent claim 16).

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4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance." Application/Control Number: 10/521,762 Page 5

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#### Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eueng-nan Yeh whose telephone number is 571-270-1586. The examiner can normally be reached on Monday-Friday 8AM-4:30PM EDT.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vikkram Bali can be reached on 571-272-7415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eueng-nan Yeh Assistant Patent Examiner Art Unit: 2624 /E.Y./

/VIKKRAM BALI/

Supervisory Patent Examiner, Art Unit 2624